

WHAT IS CLAIMED IS:

1. A movable barrier operator, comprising:
a motor;
a transmission connected to the motor to be driven
5 thereby and to the movable barrier to be moved;
a control unit having a first input device and a
second input device for providing first and second input
commands, respectively;
a controller, responsive to activation of the first
10 input device for a first period of time for commanding
the motor to operate in a first direction, responsive to
activation of the second input device for a second period
of time, for commanding the motor to operate in a second
direction, and responsive to at least two activations of
15 one of the input devices, wherein each activation is
within a defined period of time and has a duration less
than the first period of time and the second period of
time, for enabling a learn mode.
2. The movable barrier operator of claim 1,
20 wherein the control unit couples AC power to the motor
upon activation of the first input device and the second
input device.
3. The movable barrier operator of claim 1,
wherein the controller, responsive to an activation
25 within a defined period of time and having a duration
less than the first period of time and the second period
of time, stores a count of the activation.
4. The movable barrier operator of claim 3,
wherein the controller, responsive to an activation of
30 the first period of time or the second period of time,
clears the count.

5. The movable barrier operator of claim 1,
wherein the controller, responsive to at least three
activations of one of the input devices, wherein each
activation is within a defined period of time and has a
5 duration less than the first period of time and the
second period of time, for enabling a reset mode.

6. The movable barrier operator of claim 1,
wherein the controller, responsive to at least three
activations of one of the input devices, wherein each
10 activation is within a defined period of time and has a
duration less than the first period of time and the
second period of time, for enabling a group control mode.

7. The movable barrier operator of claim 1,
wherein the controller, responsive to at least three
15 activations of one of the input devices, wherein each
activation is within a defined period of time and has a
duration less than the first period of time and the
second period of time, for enabling a lock mode.

8. The movable barrier operator of claim 1,
20 wherein the controller, responsive to at least three
activations of one of the input devices, wherein each
activation is within a defined period of time and has a
duration less than the first period of time and the
second period of time, for enabling a clear memory mode.

25 9. A movable barrier operator, comprising:
a motor;
a transmission connected to the motor to be driven
thereby and to the movable barrier to be moved;
a wall control unit having a first input device and
30 a second input device for providing first and second
input commands, respectively;
a controller, responsive to activation of the first
input device for a delay of at least one half second, for

commanding the motor to operate in a first direction,
responsive to activation of the second input device for a
delay of at least one half second, for commanding the
motor to operate in a second direction, and responsive to
5 seven consecutive activations of one of the input
devices, wherein each activation is within a defined
period of time and has a duration less than one half
second, for enabling a learn mode.

10. The movable barrier operator of claim 9,
10 further comprising a counter for storing a count of each
activation that is within three hundred milliseconds of
another activation and is for a delay less than one half
second.

11. The movable barrier operator of claim 10,
15 wherein the controller, responsive to an activation of
one half second or more, clears the counter.

sub. B2
20 12. The movable barrier of claim 9, wherein the
controller, responsive to seven consecutive activations
of one of the input devices, wherein each activation is
within three hundred milliseconds of another activation
and is for a delay less than one half second, for
enabling a reset mode.

25 13. The movable barrier of claim 9, wherein the
controller, responsive to five consecutive activations of
one of the input devices, wherein each activation is
within three hundred milliseconds of another activation
and is for a delay less than one half second, for
enabling a group control mode.

30 14. The movable barrier of claim 9, wherein the
controller, responsive to twenty consecutive activations
of one of the input devices, wherein each activation is
within three hundred milliseconds of another activation

and is for a delay less than one half second, for enabling a lock mode.

sub-B3 5 15. The movable barrier of claim 9, wherein the controller, responsive to fifty consecutive activations of one of the input devices, wherein each activation is within three hundred milliseconds of another activation and is for a delay less than one half second, for enabling a clear memory mode.

10 16. A method of programming a controller for a movable barrier operator, comprising:
detecting activation of an input device;
measuring the period of time of the activation of the input device;
changing a count if the measured activation time
15 period is less than a predetermined value and within a defined period of time;
enabling a learn mode when the count is equal to a predetermined value; and
activating a motor to move the barrier if the
20 measured period of time is greater than the predetermined value.

17. The method of claim 16, further comprising the step of clearing the counter when the measured activation time period is more than the predetermined value.

sub-B4 25 18. The method of claim 17, wherein the predetermined value of the count is seven, the predetermined value is one half second, and the defined period of time is within three hundred milliseconds of another activation.

30 19. The method of claim 16, further comprising the step of enabling a reset mode when the count is seven, the predetermined value is one half second, and the

defined period of time is within three hundred milliseconds of another activation.

20. The method of claim 16, further comprising the step of enabling a group control mode when the count is five, the predetermined value is one half second, and the defined period of time is within three hundred milliseconds of another activation.

21. The method of claim 16, further comprising the step of enabling a lock mode when the count is twenty, the predetermined value is one half second, and the defined period of time is within three hundred milliseconds of another activation.

22. The method of claim 16, further comprising the step of enabling a clear memory mode when the count is fifty, the predetermined value is one half second, and the defined period of time is within three hundred milliseconds of another activation.

23. A method of operating a controller for a movable barrier operator, comprising:
providing a power line;
using said power line as a binary data generator;
supplying a controller capable of monitoring and decoding said binary data, wherein power on and off states serve as binary ones and zeros; and
performing a mode of operation corresponding to the decoded binary data received.

24. The method of claim 23, wherein the mode of operation corresponding to the decoded binary data is a learn mode.

25. The method of claim 23, wherein the mode of operation corresponding to the decoded binary data is a

reset mode.

26. The method of claim 23, wherein the mode of operation corresponding to the decoded binary data is a group control mode.

5 27. The method of claim 23, wherein the mode of operation corresponding to the decoded binary data is a lock mode.

10 28. The method of claim 23, wherein the mode of operation corresponding to the decoded binary data is a memory clear mode.